

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO. 045413-0114

Applicant: Jonathan A. ELLMAN et al.
Title: PHARMACOPHORE RECOMBINATION FOR THE
IDENTIFICATION OF SMALL MOLECULE DRUG
LEAD COMPOUNDS
Appl. No.: Unassigned
Filing Date: 09/26/2003
Examiner: Unassigned
Art Unit: 1627

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop PATENT APPLICATION
Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

Applicants submit herewith on Form PTO/SB/08 a listing of the documents cited by or submitted to the U.S. PTO in parent application Serial No. 10/029,304, filed December 28, 2001. As provided in 37 CFR §1.98(d), copies of the documents are not being provided since they were previously submitted to the United States Patent & Trademark Office in the above-identified parent application.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

Appl. No. Unassigned

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR § 1.97(b), within three (3) months of the filing date of the application.

RELEVANCE OF EACH DOCUMENT

The relevance of the documents is explained in the parent application.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP § 609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

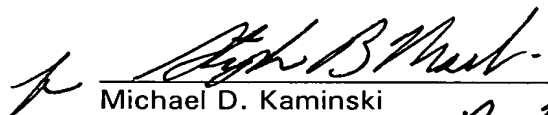
September 26, 2003
Date

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Michael D. Kaminski
Attorney for Applicant
Registration No. 32,904 *Reg No 35,262*

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: September 26, 2003 <i>(use as many sheets as necessary)</i>			Complete if Known			
			Application Number		Unassigned	
			Filing Date		09/26/2003	
			First Named Inventor		Jonathan A. ELLMAN et al.	
			Group Art Unit		Unassigned	
			Examiner Name		Unassigned	
Sheet	1	of	4	Attorney Docket Number		045413-0114

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	5,698,401		FESIK et al.	12/16/1997	
	A2	5,658,727		BARBAS et al.	08/19/1997	
	A3	5,543,507		COOK et al.	08/06/1996	
	A4	5,362,859		ZALE	11/08/1994	
	A5	5,512,435		RENSCHLER et al.	04/30/1996	
	A6	5,683,867		BIESECKER et al.	11/04/1997	
	A7	4,727,022		SKOLD et al.	02/23/1988	
	A8	5,422,281		HARRIS et al.	06/06/1995	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A9	WO	98/11436			03/19/1998		
	A10	WO	98/48264			10/29/1998		

NON PATENT LITERATURE DOCUMENTS			
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	A11	Shuker et al., Science 274:1531-1534 (1996).	
	A12	Singh et al., J. Am. Chem. Soc. 118:1669-1676 (1996)	
	A13	Weber et al., Angew. Chem. Int. Ed. Engl. 34:2280-2282 (1995)	
	A14	Huc et al., Proc. Natl. Acad. Sci. USA: 94:2106-2110 (1997)	
	A15	Holland, Sci. Amer. USA 66-72 (1997)	
	A16	Rowan, et al., Angew. Chem. Int. Ed. Engl. 35:2143-2145	
	A17	Rowan, et al., J. Am. Chem. Soc. 119:2578-2579 (1997)	
	A18	Hajduk, et al., Sci. 278:497-498 (1997)	

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	A19	Shuker, et al., Sci. 274:1531-1534	
	A20	Rose, J. Amer. Chem. Soc. 116:30-33 (1994)	
	A21	Shao et al., Amer. Chem. Soc. 117:3893-3899 (1995)	
	A22	Tuchscherer, Eng., 34:8419-8422	
	A23	Jencks, Proc. Natl. Acad. Sci. 78:4046-4050 (1981)	
	A24	Olejniczak et al., J. of Am. Chem. Soc. 119:5828-5832 (1997)	
	A25	Nakamura et al., Biochemistry 24:1364-1376 (1985)	
	A26	Nazarpak-Kandlousy et al., J. Combinatorial Chem. (1998)	
	A27	Hajduk, et al., J. Am. Chem. Soc. 119:5818-5827 (1997)	
	A28	Dolle et al., J. of Combinatorial Chem. 1:229-382 (1999)	

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	A29	Puius et al. Proc. Natl. Acad. Sci. 94:13420-13425 (1997)	
	A30	Hajduk et al., J. Am. Chem. Soc. 119:5818-5827 (1997)	
	A31	Eliseev Drug Discovery and Development 1:106-115 (1998)	
	A32	Jindal, et al., Spectrum Drug Discovery and Design, 20:1-15 (1998)	
	A33	Baldwin, et al., J. Am. Chem. Soc., 117:5588-5589 (1995)	
	A34	Gilbertson et al., Tetrahedron Letters 37:6475-6478 (1996)	
	A35	Pfistermueller, et al., FEBS Letters 39:14-20 (1996)	
	A36	Godfrey, et al., J. Exp. Med. 80:757-762 (1994)	
	A37	Boger et al., Solution-Phase Combinatorial Synthesis via the Olefin Metathesis Reaction, Bioorg. Med. Chem. Lett., Vol. 7, No. 4, pp. 463-468 (1997)	
	A38	Gordon et al., Applications of Combinatorial Techniques to Drug Discovery, 2. Combinatorial Organic Synthesis, Library Screening Strategies and Future Directions, J. Med. Chem., Vol. 37, No., 10, pp. 1885-1401 (1994)	

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Sheet 4 of 4

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	A39	Sigal et al. Polyacrylamides Bearing Pendant a-Sialoside Groups Strongly Inhibit Agglutination of Erythrocytes by Influenza Virus J. Am. Chem. Soc. Vol. 118, No. 16, pp. 3789-3400. (1996)	
	A40	Zhao et al. Coumarin-Based Inhibitors of HIV Integrase, J. Med. Chem., Vol. 40, No. 2, pp. 242-249, (1997)	
	A41	Hadjuk et al., One-Dimensional Relation and Diffusion Edited NMR Methods for Screening Compounds that Bind to Macromolecules, J. am. Chem. Soc., Vol. 119, No. 50, pp. 12257-12261, (1997).	
	A42	Keyes et al., Correlation of Anti-HIV Potency with Lipophilicity in a Series of Cosalane Analogs ...J. Med. Chem., Vol. 39, No. 2, pp. 508-514. (1996)	
	A43	Zhao et al., Arylamide Inhibitors of HIV-1 Integrase, J. Med. Chem. 40, pp. 1186-1194 (1997)	

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